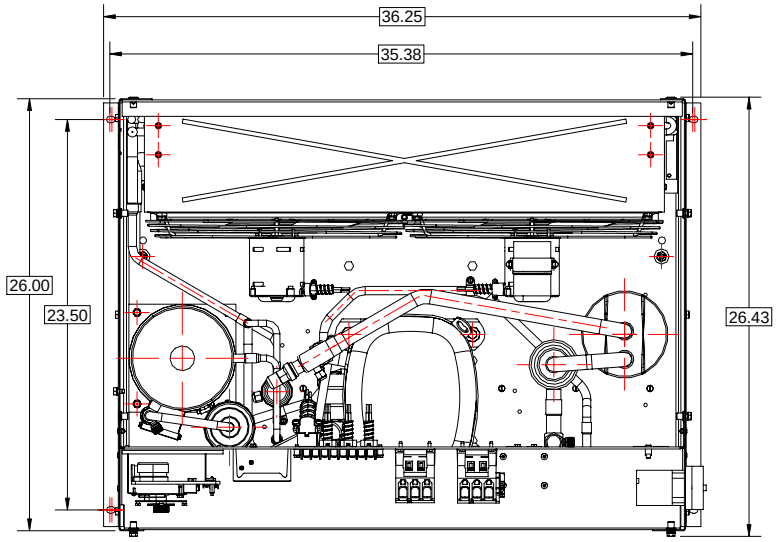
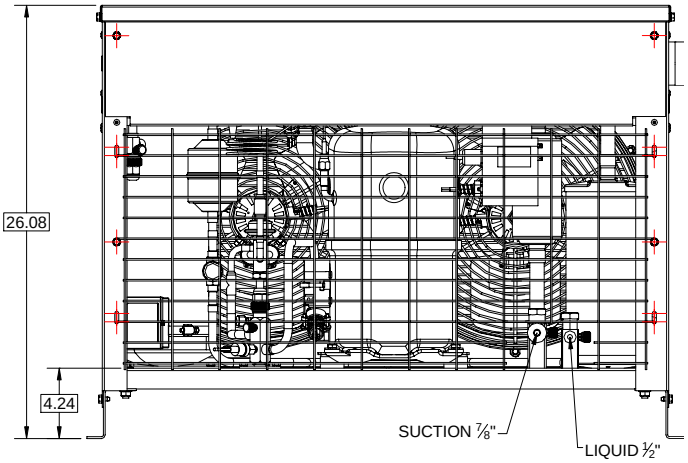
TECUMSEH OUTDOOR CONDENSING UNIT

Model	**AVA9525ZXTHN**
BOM	**32L3154-2E***
Air Cooled	**3 ¼ HP**
Application	**Commercial Temp**
Refrigerant	**R404A**
Volts-Hz-Ph	**200-230/60/3**





AVA9525ZXTHN	Overall Dimensions, inch (mm)			Line connections		Pumpdown	Air flow	Oil Ch.	Gross weight
	L	W	H	Suction	Liquid	90%@90°F	SCFM	Oz.	Lbs. (kg)
	26.43 (671)	36.25 (921)	26.08 (662)	7/8"	1/2"	20.09 lbs	1500	54.9	280 (127)

Factory charge 20 psig dry air, **MUST BE EVACUATED**

Evaporator		Ambient Temperatures															
		80°F			90°F			95°F			100°F			110°F		
T, °F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
-10	23.2	14200	2630	94	12100	2610	103	11100	2590	108	10100	2550	112	8200	2410	121
-5	27.5	16000	2820	96	13800	2820	105	12800	2810	110	11800	2780	114	9700	2680	122
0	32.1	18000	3030	98	15700	3040	107	14600	3040	112	13600	3020	116	11300	2950	124
5	37.0	20200	3230	100	17700	3260	109	16600	3270	114	15400	3270	118	13000	3220	126
10	42.4	22500	3450	103	19900	3490	111	18700	3510	116	17400	3510	120	14800	3490	128
15	48.2	24900	3660	105	22200	3720	114	20800	3750	118	19500	3770	122	16700	3770	131
20	**54.5**	**27500**	**3890**	**108**	**24600**	**3960**	**116**	**23100**	**3990**	**120**	**21700**	**4020**	**125**	**18700**	**4050**	**133**
25	61.2	30200	4110	111	27100	4200	119	25600	4240	123	24000	4280	127	20700	4340	135
30	68.4	33100	4350	113	29800	4450	121	28100	4500	125	26400	4540	129	22800	4620	138
35	76.1	36200	4590	116	32600	4690	124	30800	4750	128	28900	4810	132	25000	4910	140
40	84.4	39300	4830	119	35500	4950	126	33500	5010	130	31500	5080	134	27300	5210	143
45	93.2	42700	5080	122	38500	5210	129	36400	5280	133	34300	5360	137	29700	5510	145

Performance @ 60 Hz, Return gas 40°F below 20°F Evaporator and 65°F above 20°F evaporator, SubCooling 5°F

*** OPTION CODE:** See reverse side for Available Options

Parts/Specifications

STANDARD

Unit BOM	**32L3154-2E**	Fan Motor	810F050C20
Unit MODEL	**AVA9525ZXTHN**	Replacement Fan Motor	50W230
		Fan Motor Qty	2
Refrigeration Range	-10°F to 45°F	Fan Motor RLA	0.7
Design Pressure Low / High	181 / 450	Fan Blade	51568-1
Volts - HZ - Ph	200-230V 3~ 60HZ	Fan Guard	70831
Voltage Range	180 - 253	Shroud	70648-2
Min. Circuit Ampacity	21.45		
Max. Fuse Size	35	High Pressure switch	84095-2L
		Low Pressure Control	84026-2
Compressor MODEL	AVA9522ZXT	Dual Pressure Conrol	
Compressor BOM	AV203RT-012-A2		
Compressor LRA	74	Head Master Valve	70083
Compressor RLA	15.71	Check Valve	56626
		Process Valve	
OverLoad	internal	Discharge Valve (Base)	56566
Replacement Kit - O/L		Liquid Valve (Base)	56500-K08
Relay		Liquid Valve (Receiver)	attached
Replacement Kit - Relay		Suction Valve (Base)	56500-K14
Run Capacitor		Suction Valve (Rotolock)	31529-1
Run Capacitor Rating			
Start Capacitor		Condenser	50858-1
Start Capacitor Rating		Receiver	51099-2L
Contactor	91014B	Accumulator	TK00042000
		Liquid Filter	52000-084D
Unit Drawing	DGU1920-L301	Sight Glass	70084-2S
Wiring Diagram	WD23-2XT2	Suction Filter	70822-5S
Wiring Diagram (A or F opt.)	WD23-2AT2	CrankCase Heater	

AVAILABLE OPTIONS

32Lxxxx-2ER(F)ATnD

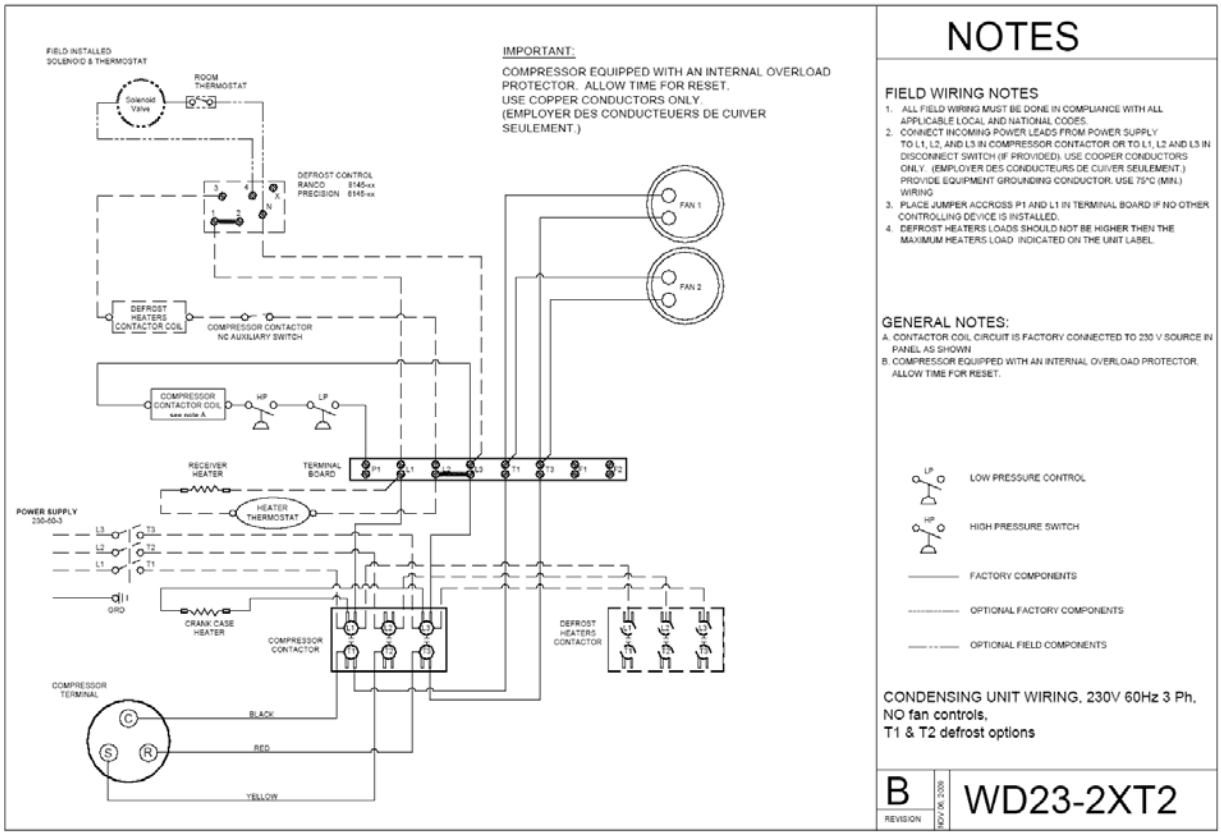
- R Heated/Insulated Receiver
- F Fixed Fan Control
- A Adjustable Fan Control
- T1 Air Defrost Timer
- T2 Electrical Defrost Timer & Defrost Heater Contactor
- D Disconnect Switch (nonfused)

AVAILABLE ACCESSORIES

Solenoid Valve (supplied loose)	KSVC-264
Hail Louver Assy	LLPG-201

REPLACEMENT PARTS

Receiver Heater (R option)	92124-1
Receiver Thermostat (R option)	84102-2
Fixed Fan Control (F option)	84132-01
Adjustable Fan Control (A option)	14955874
Defrost Timer (T1 or T2 option)	84110
Defrost Heater Contactor and Auxiliary Switch (T2 opt.)	91014B and 91014-AUX
Disconnect (D option)	LDSG-332


FIELD INSTALLED SOLENOID & THERMOSTAT
Solenoid Valve
ROOM THERMOSTAT
DEFROST CONTROL RANCO 8145-xx PRECISION 8145-xx
DEFROST HEATERS CONTACTOR COIL
COMPRESSOR CONTACTOR NO AUXILIARY SWITCH
COMPRESSOR CONTACTOR COIL see note A
HP
LP
RECEIVER HEATER
TERMINAL BOARD
HEATER THERMOSTAT
POWER SUPPLY 230-60-3
GRD
CRANK CASE HEATER
COMPRESSOR CONTACTOR
DEFROST HEATERS CONTACTOR
FAN 1
FAN 2
COMPRESSOR TERMINAL
BLACK
RED
YELLOW
IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.
USE COPPER CONDUCTORS ONLY.
(EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
NOTES
FIELD WIRING NOTES
1. ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
2. CONNECT INCOMING POWER LEADS FROM POWER SUPPLY TO L1, L2, AND L3 IN COMPRESSOR CONTACTOR OR TO L1, L2 AND L3 IN DISCONNECT SWITCH (IF PROVIDED). USE COOPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING
3. PLACE JUMPER ACCROSS P1 AND L1 IN TERMINAL BOARD IF NO OTHER CONTROLLING DEVICE IS INSTALLED.
4. DEFROST HEATERS LOADS SHOULD NOT BE HIGHER THEN THE MAXIMUM HEATERS LOAD INDICATED ON THE UNIT LABEL.
GENERAL NOTES:
A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V SOURCE IN PANEL AS SHOWN
B. COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.
LP
LOW PRESSURE CONTROL
HP
HIGH PRESSURE SWITCH
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS
OPTIONAL FIELD COMPONENTS
CONDENSING UNIT WIRING, 230V 60Hz 3 Ph,
NO fan controls,
T1 & T2 defrost options
B
REVISION
NOV 06 2008
WD23-2XT2